AM-FM STEREO RECEIVER

KR-A4070/A5070 [E, T, G Type]

SERVICE MANUAL

KENWOOD

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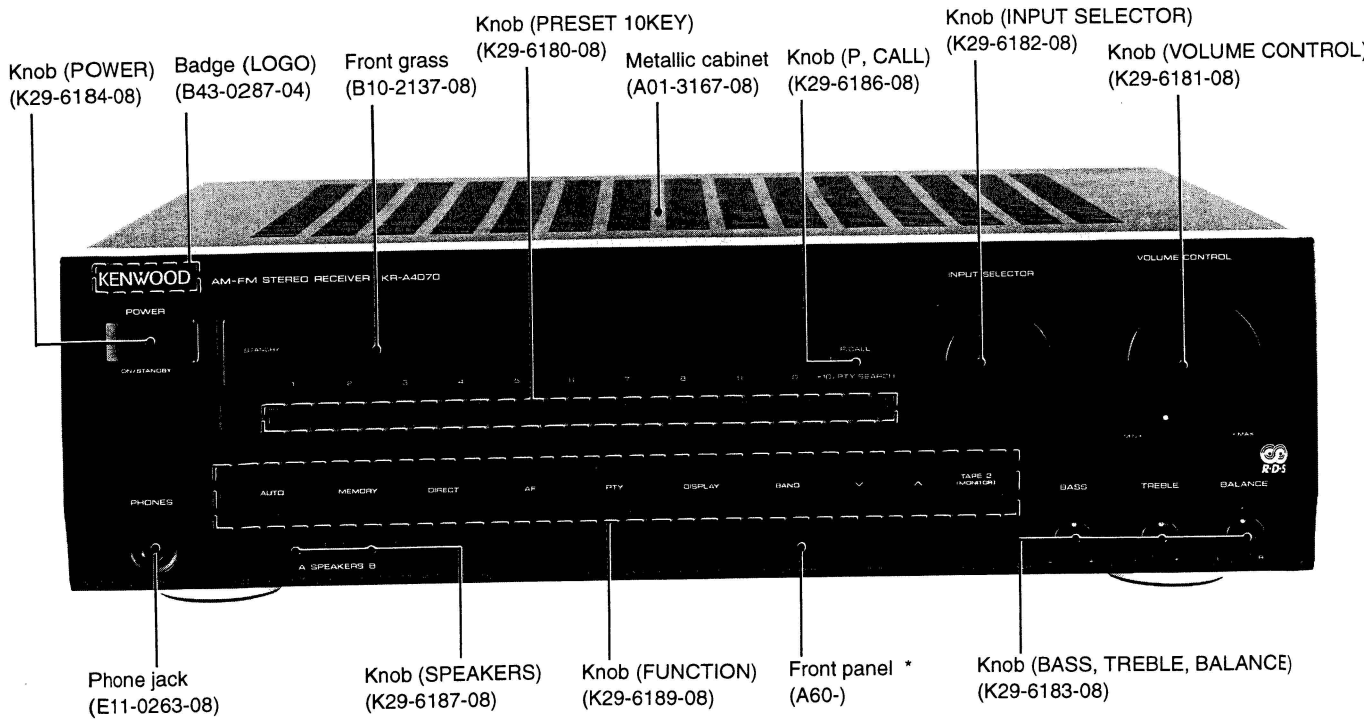
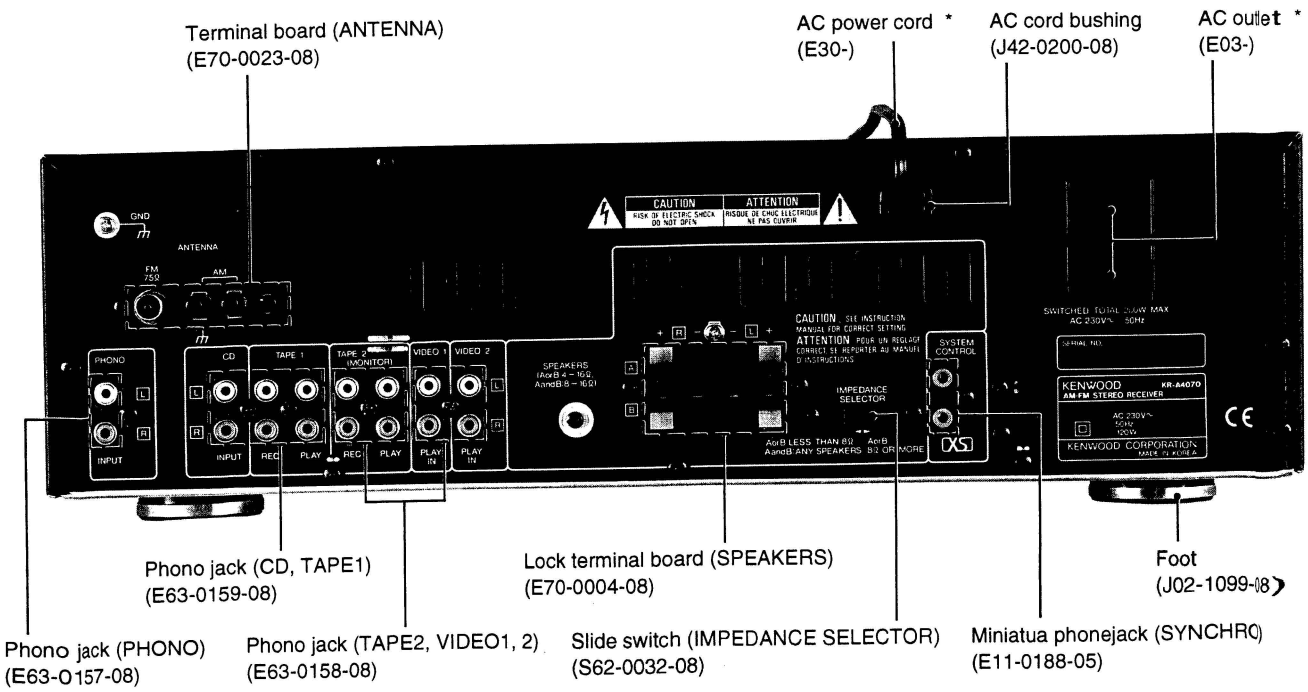
B51-5057-00(S) 1812

PHOTO is KR-A4070 (T type)





* Refer to parts list on page 26.

KR-A4070/A5070 [E, T, G]

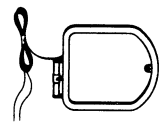
CONTENTS/ACCESSORIES

CONTENTS/ACCESSORIES 2
EXTERNAL VIEW KR-A5070 3
DISASSEMBLY FOR REPAIR 4
BLOCK DIAGRAM 5
CIRCUIT DESCRIPTION 6
ADJUSTMENT 11
WIRING DIAGRAM 12
PC BOARD(Component side view) 13
SCHEMATIC DIAGRAM 17
EXPLODED VIEW 25
PARTS LIST 26
SPECIFICATIONS 31

ACCESSORIES

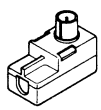
T type antenna .....(1)
(T90-0176-05)

AM loop antenna.....(1)
(T90-0804-08)

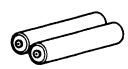


Loop antenna holder .....(1)
(J19-2815-04)

Antenna adaptor.....(1)
(T90-0805-08)

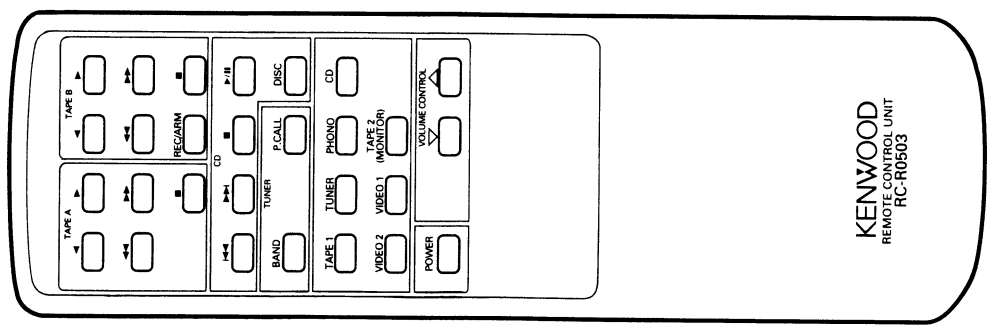


Batteries (R6/A4).....(2)



Remote control unit (RC-R0503).....(1)
(A70-0985-08)

Battery cover
(A09-0170-08)



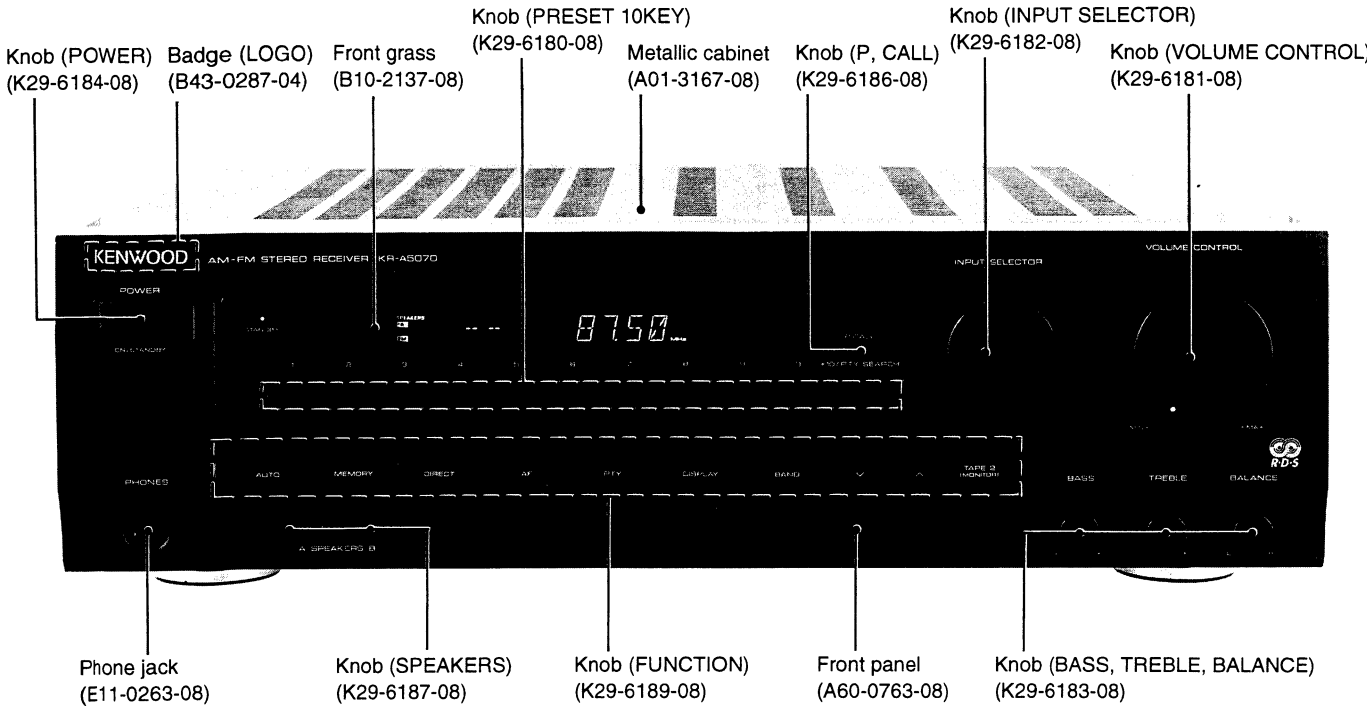
Model: RC-R0503
Infrared ray system

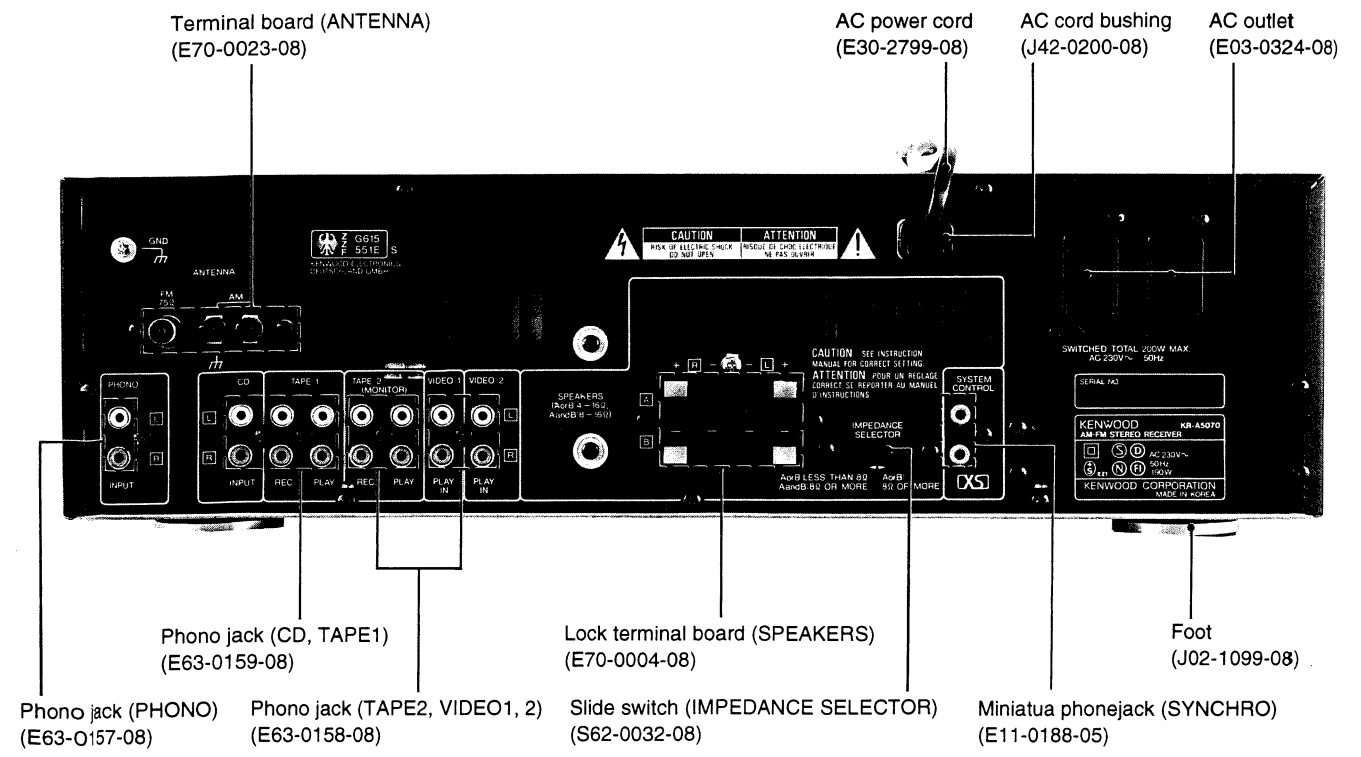
INSTRUCTION MANUAL

	Parts No.	Destination
ENGLISH	B60-2114-08	T, E
FRE/DUC/ITA/SPA	B60-2115-08	E
GERMANY	B60-2116-08	E, G

EXTERNAL VIEW : KR-A5070

PHOTO is KR-A5070 (E, G type)





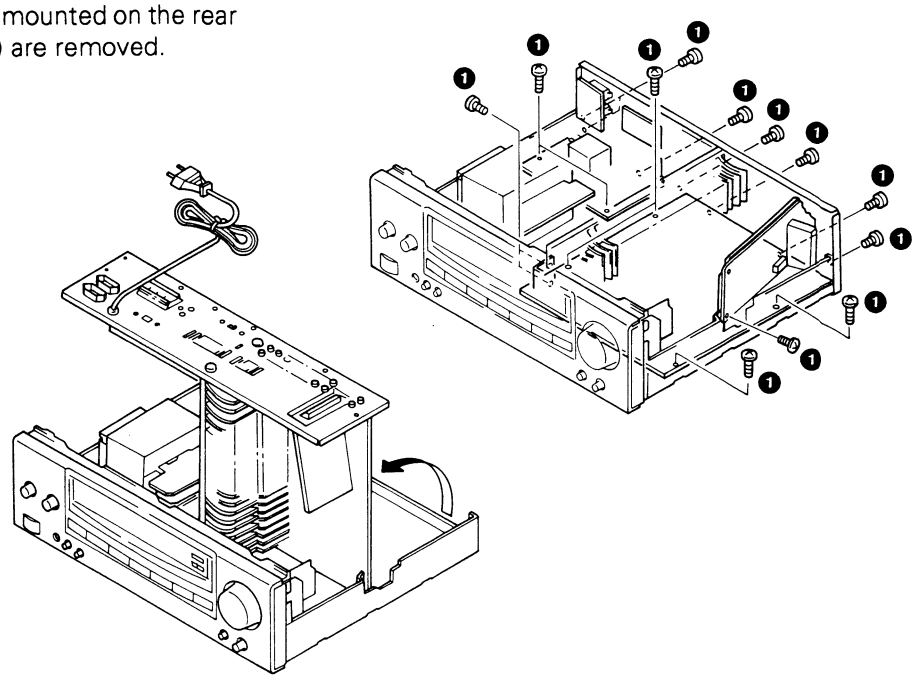
* Refer to parts list on page 26.

KR-A4070/A5070 [E, T, G]

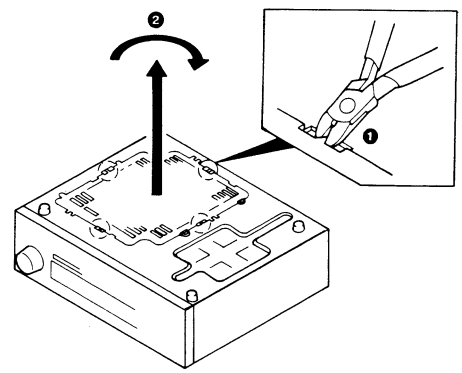
DISASSEMBLY FOR REPAIR

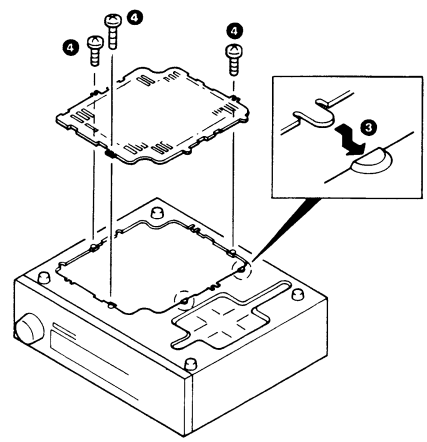
[Illustrations are reference materials.]

1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (❶) are removed.

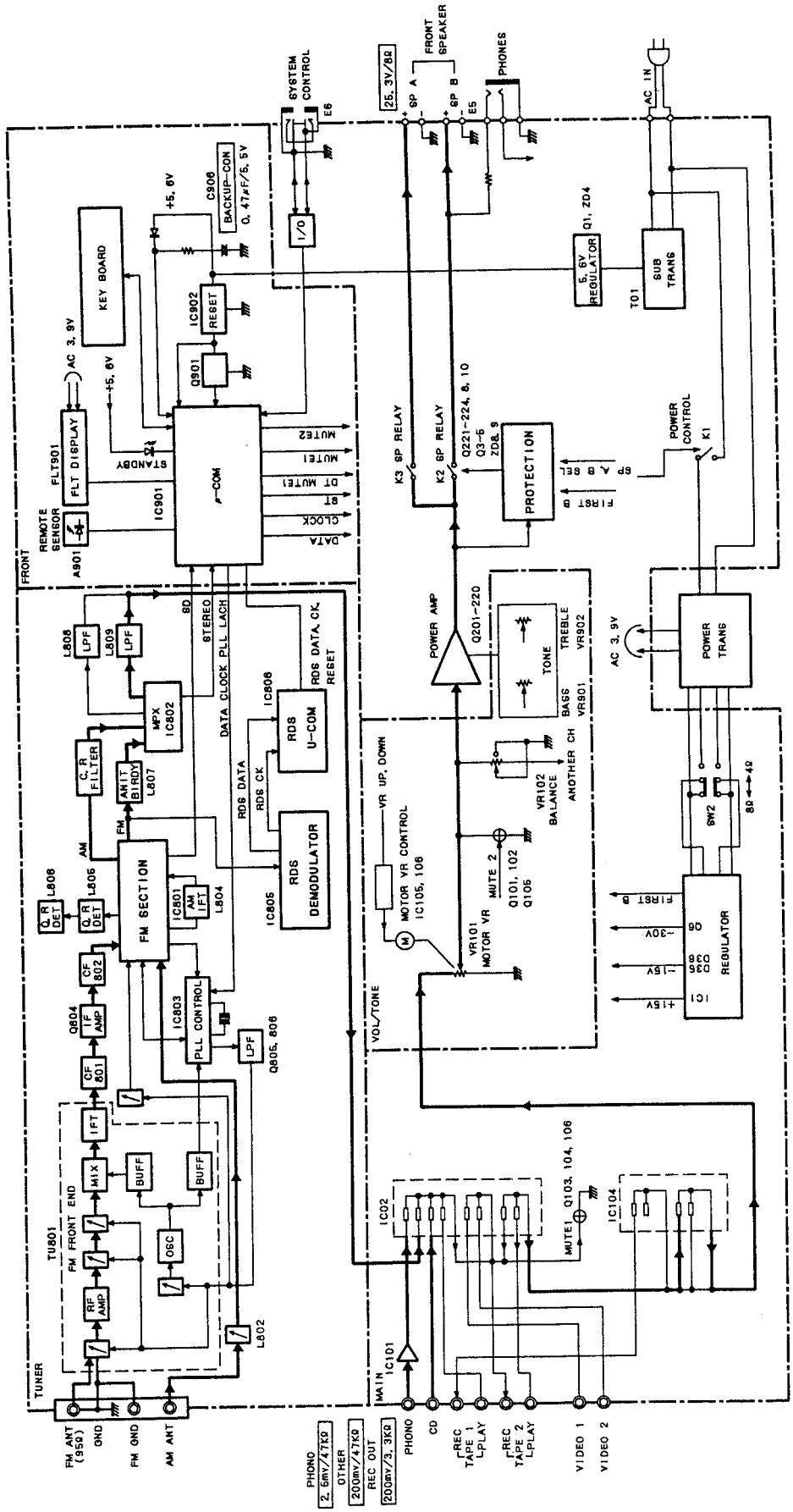


2. Cut the 4 places with a pair of nippers (❶), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (❷).
5. Insert the lids in the 2 places of the chassis (❸), and mount them with the 3 screws (❹).





BLOCK DIAGRAM



KR-A4070/A5070 [E, T, G]

CIRCUIT DESCRIPTION

1. Function description

Features

1-1. AMP

- Seven position selector :
  CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :
  CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :
  TAPE1, TAPE2
- LINE STRAIGHT
- Speaker A/B change-over
- TAPE2 monitor

1-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

2. Conditions according to the destination and model

2-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround
KR-A4070/A5070 (E, T only)	1	X	No surround

X : Don't care

2-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	
K2	0	0	1	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	
E	0	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	
E	1	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	With RDS
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	

2-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	-	D910	-	D909	-

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only
  0 : AM NARROW
  1 : AM WIDE
- Diode SW 2→ Channel base
  (Products bound for M : Change-over with switch)
  0 : FM 100kHz/step, AM 10kHz/step
  1 : FM 50kHz/step, AM 9kHz/step
- Diode SW 3→With/Without RDS/E, T type only
  0 : Without RDS
  1 : With RDS
- Diode SW 4→Surround mode
  0 : Dolby function & DSP function
  1 : Dolby function only
- Diode SW 5→With/Without surround
  0 : With surround
  1 : Without surround

CIRCUIT DESCRIPTION

3. Initial state

① POWER OFF
② AMP system
- Audio selector ..... TUNER
- Video system selector ..... VIDEO 1
- Speaker A ..... ON
- Speaker B ..... OFF
- TAPE 2 monitor ..... OFF
- LINE STARIGHT ..... OFF

③ TUNER system
- Band ..... FM
- Frequency ..... Lower limit of FM (87.5MHz)
- TUNING mode .... AUTO TUNING (AUTO STEREO)
- P.CH indication ..... – –ch

④ Test frequency

	K1 type	K2 type	E type
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

Initial setting Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

CIRCUIT DESCRIPTION

4. Main Unit Test Mode

Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

Cancellation method

Turn the AC power OFF.

Contents

① Start of the main unit test mode
The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.
  The "All indications lit up" states is cancelled by pushing any key of the main unit.
  The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)
The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

③ Mute signal output (AMP)
No control of selector MUTE (MUTE1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

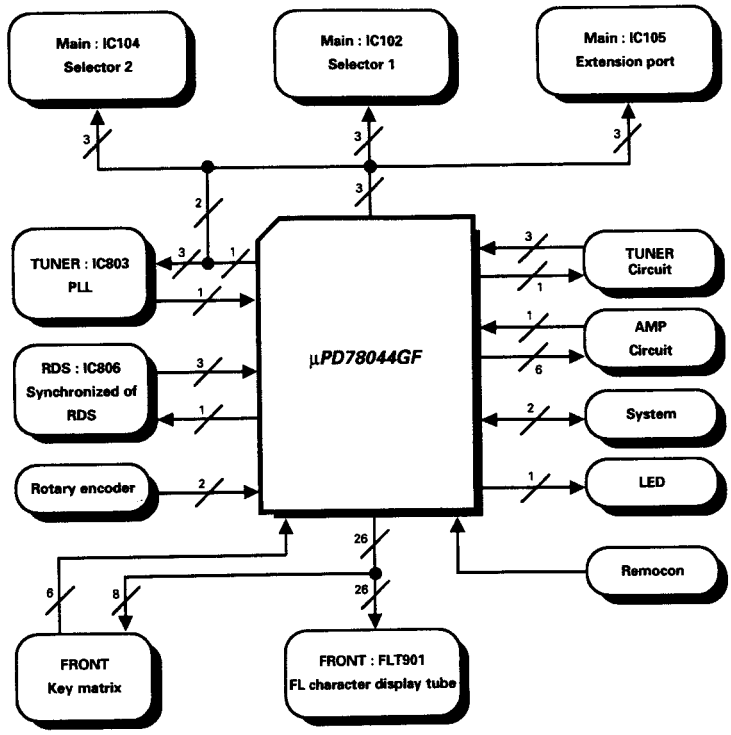
- Processing related to the AMP : None
- Processing related to the TUNER : None

⑥ Cancellation of the main unit test mode
The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

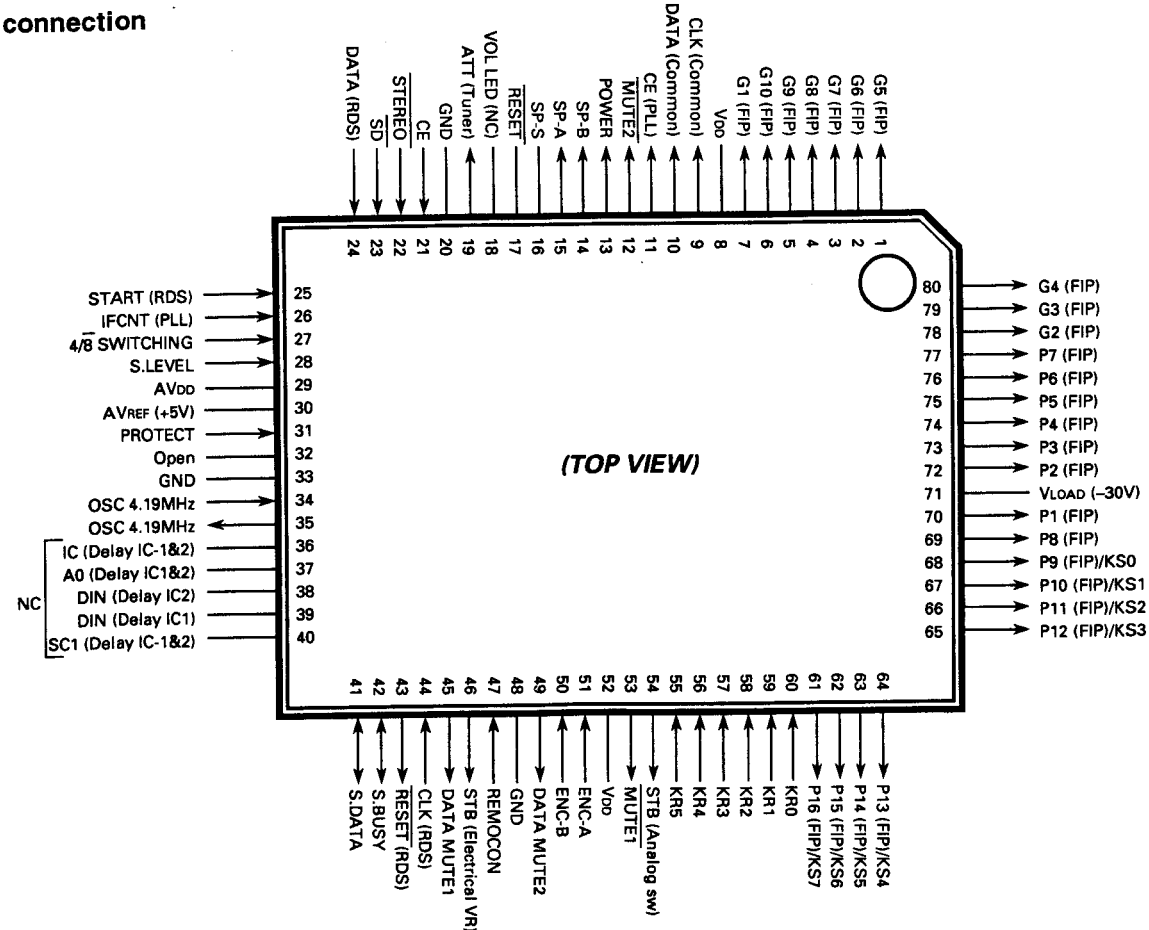
CIRCUIT DESCRIPTION

5. µ-com : µPD78044GF-021 (Front PCB : IC901)

5-1. µ-com periphery block diagram



5-2. Pin connection



CIRCUIT DESCRIPTION

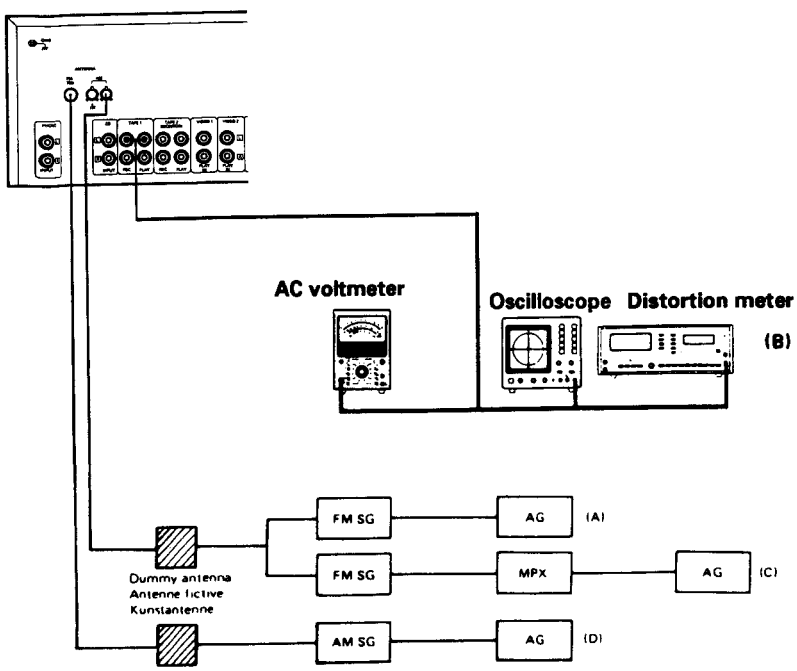
5-3. Pin function

No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	VDD	–	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	$\overline{\text{MUTE2}}$	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	–	Not used (open).
17	$\overline{\text{RESET}}$	I	μ-com reset.
18	VOL LED	–	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	–	A/D power supply.
21	CE	I	μ-com CE.
22	$\overline{\text{STEREO}}$	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	$\overline{\text{SD}}$	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/$\overline{8}$ SWITCHING	I	Speaker impedance switching. ("H" : 4Ω, "L" : 8Ω)
28	S.LEVEL	I	Signal level (A/D).
29	AVDD	–	A/D power supply.
30	AVREF	–	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	–	Open.
33	Vss	–	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	I C (DELAY IC-1 & 2)	–	Not used.
37	A0 (DELAY IC-1 & 2)	–	Not used.
38	DIN (DELAY IC-1)	–	Not used.
39	DIN (DELAY IC-2)	–	Not used.
40	SC1 (DELAY IC-1 & 2)	–	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electical VOL)	–	Not used.
47	REMOCON	I	Remote controller input.
48	GND	–	
49	DT MUTE2	–	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	VDD	–	Power supply.
53	$\overline{\text{MUTE1}}$	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (VLOAD)	–	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

ADJUSTMENT

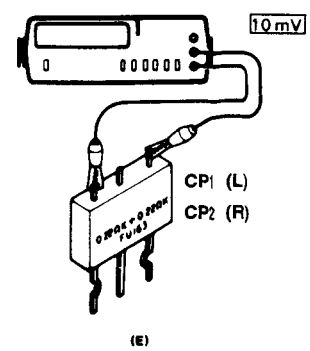
AM section : If alignment point is "—", confirm the value. If not, replacd the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		**SELECTOR : FM**					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	Minimum distortion. (L or R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ (ANT. input)	(B)	98.0MHz	IFT (Front end pack)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum cross talk.	
6	TUNING LEVEL	(A) 98.0MHz 0 dev. 17dBμ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR802 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION		**SELECTOR : AM**					
(1)	TUNING LEVEL	(D) 999MHz 26dBμ (ANT. input)	(B)	—	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	Connect a DC voltmeter Across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	



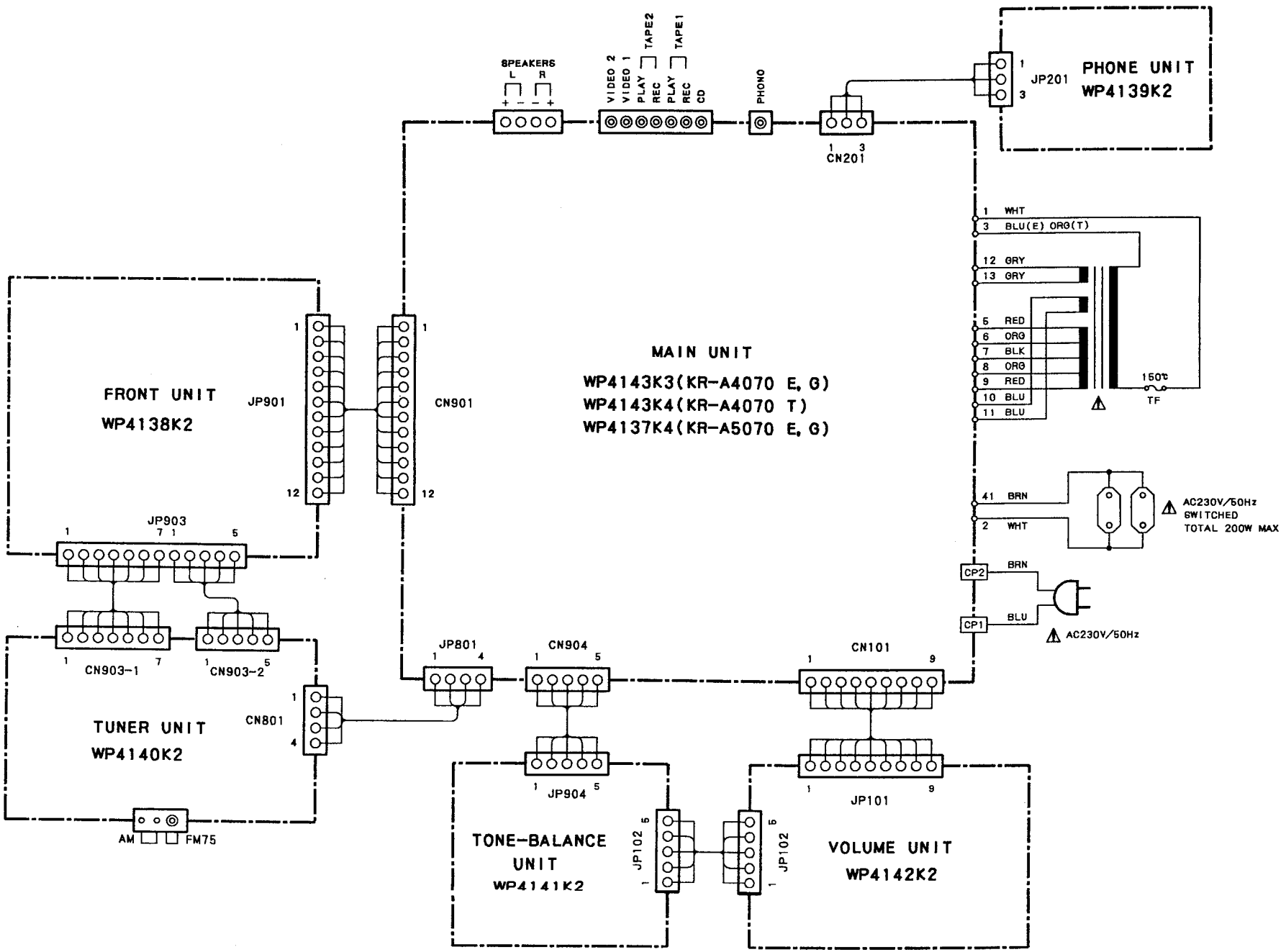
System connections

(e) DC voltmeter

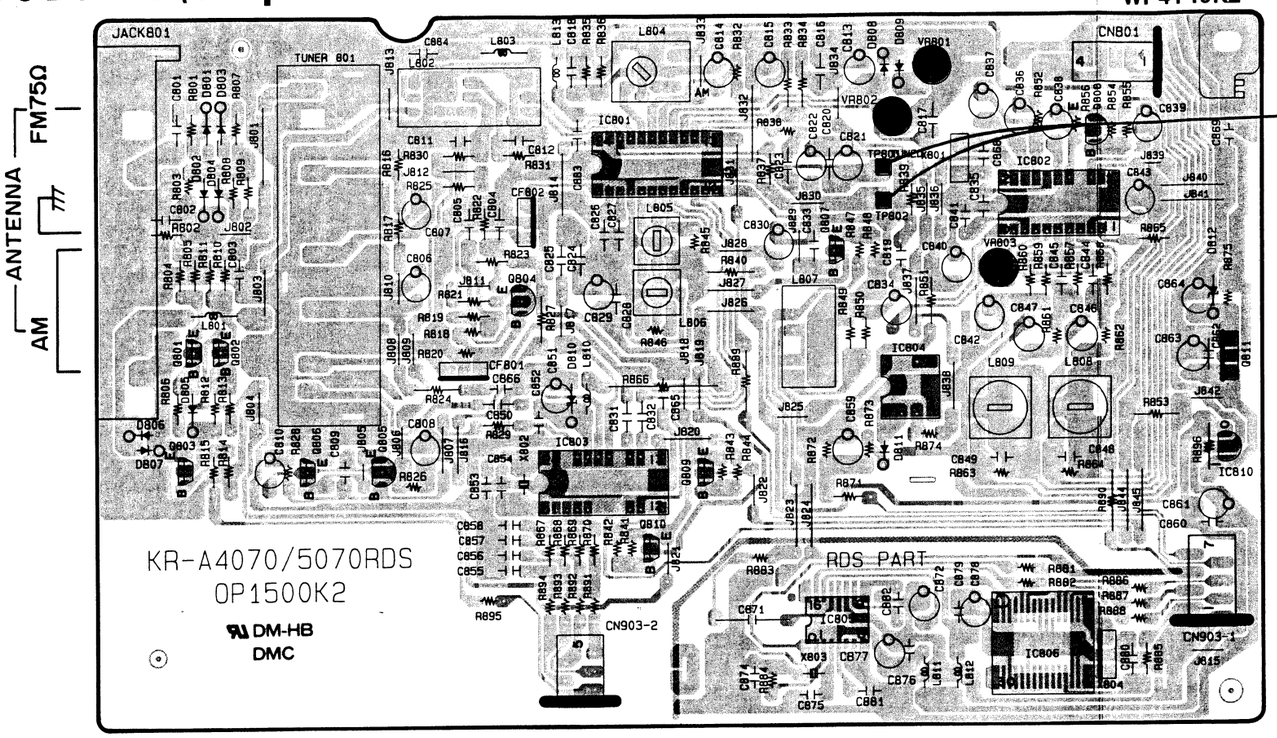


KR-A4070/A5070 [E, T, G]

WIRING DIAGRAM



PC BOARD (Component side view) : KR-A4070/A5070



ANTENNA FM75Ω / AM

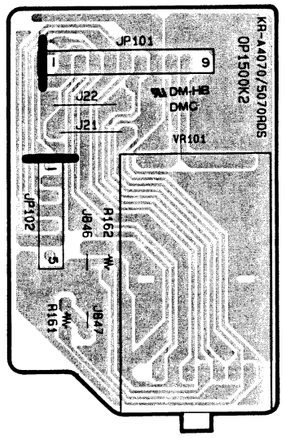
TUNER UNIT
WP4140K2

(a) Discriminator :

0V

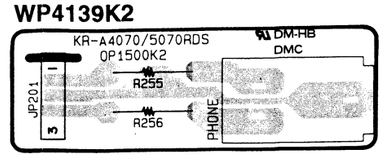
DC Voltmeter

MOTER VOLUME UNIT
WP4142K2



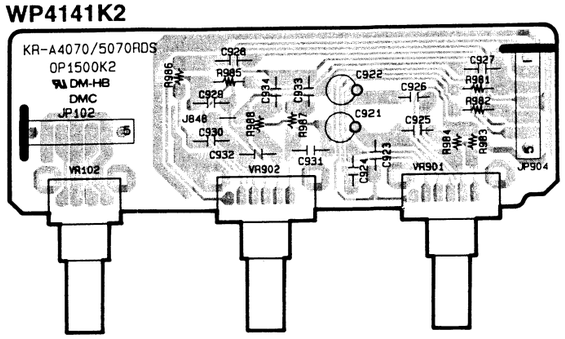
VOLUME CONTROL

PHONE UNIT
WP4139K2



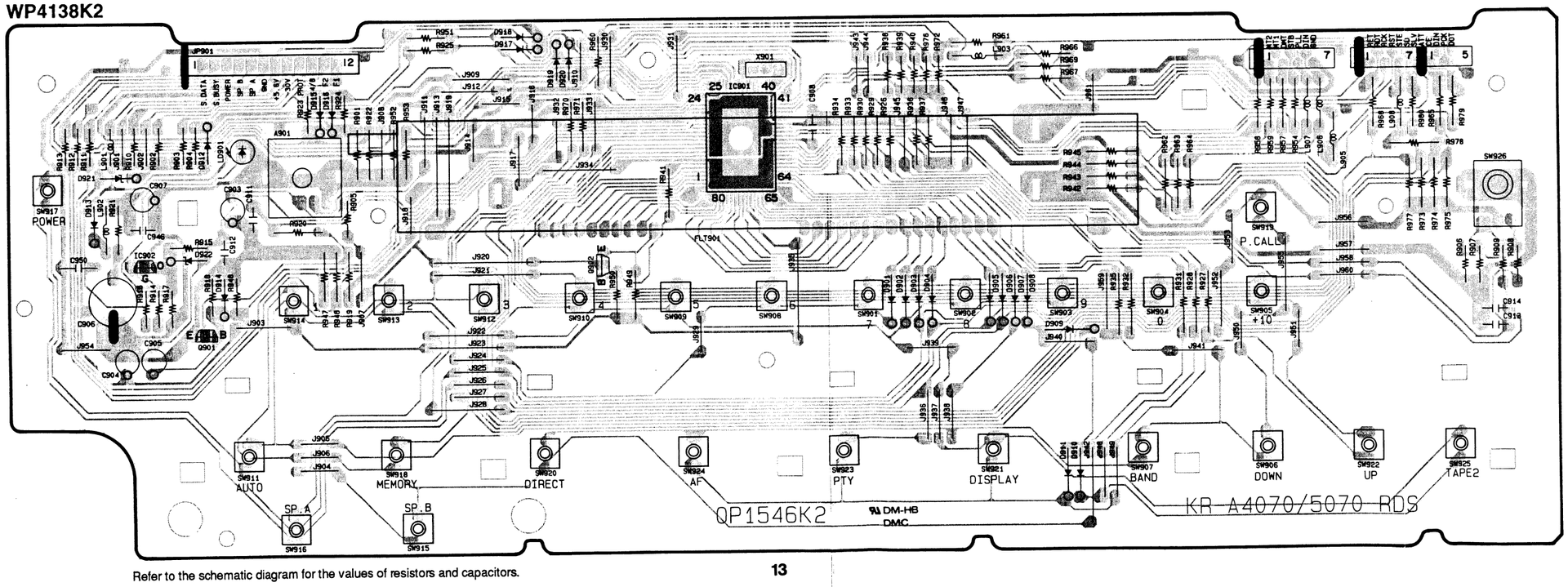
PHONES

TONE BALANCE UNIT
WP4141K2



BALANCE R L | TREBLE + − | BASS + −

FRONT UNIT
WP4138K2

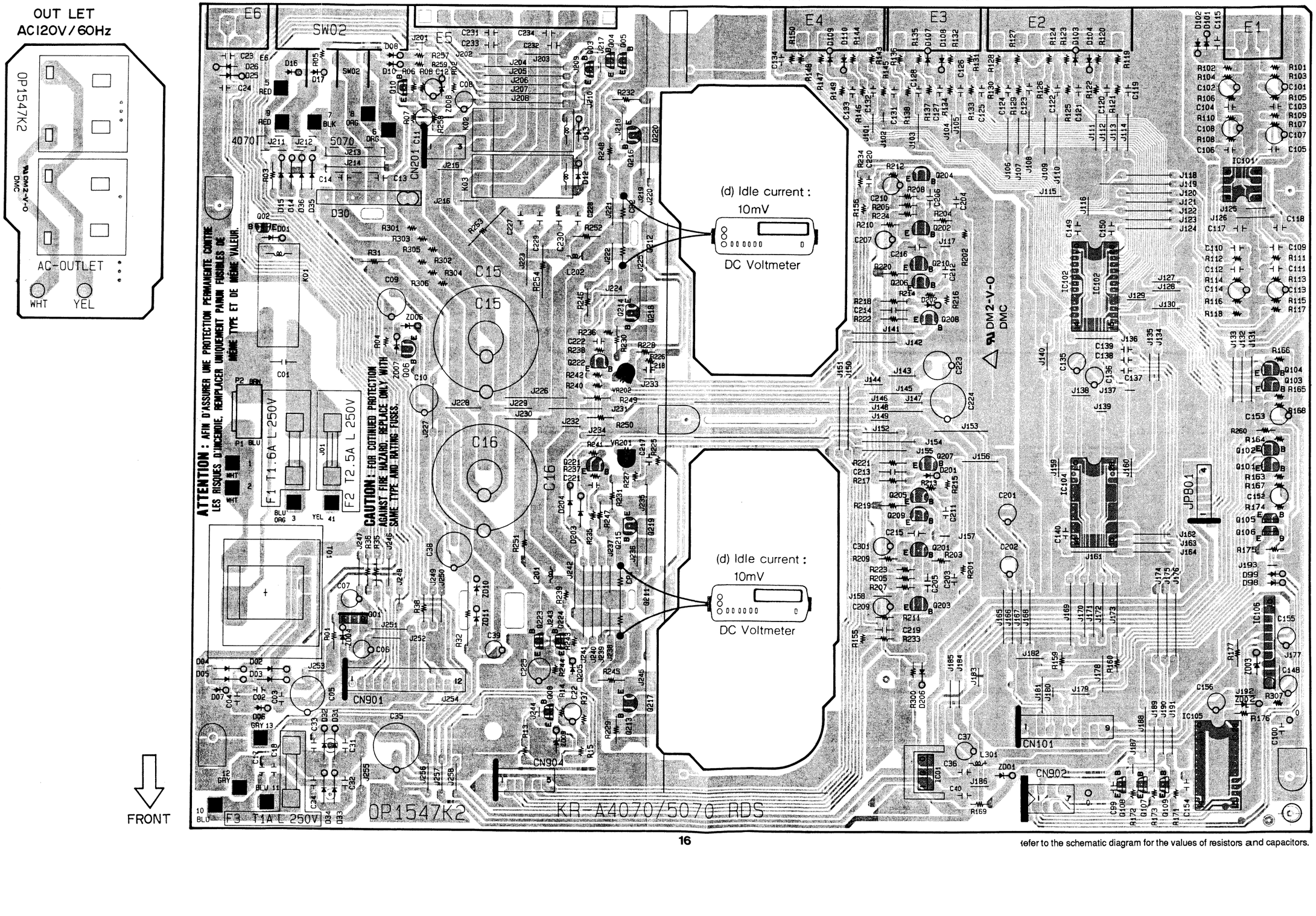


FRONT

Refer to the schematic diagram for the values of resistors and capacitors.

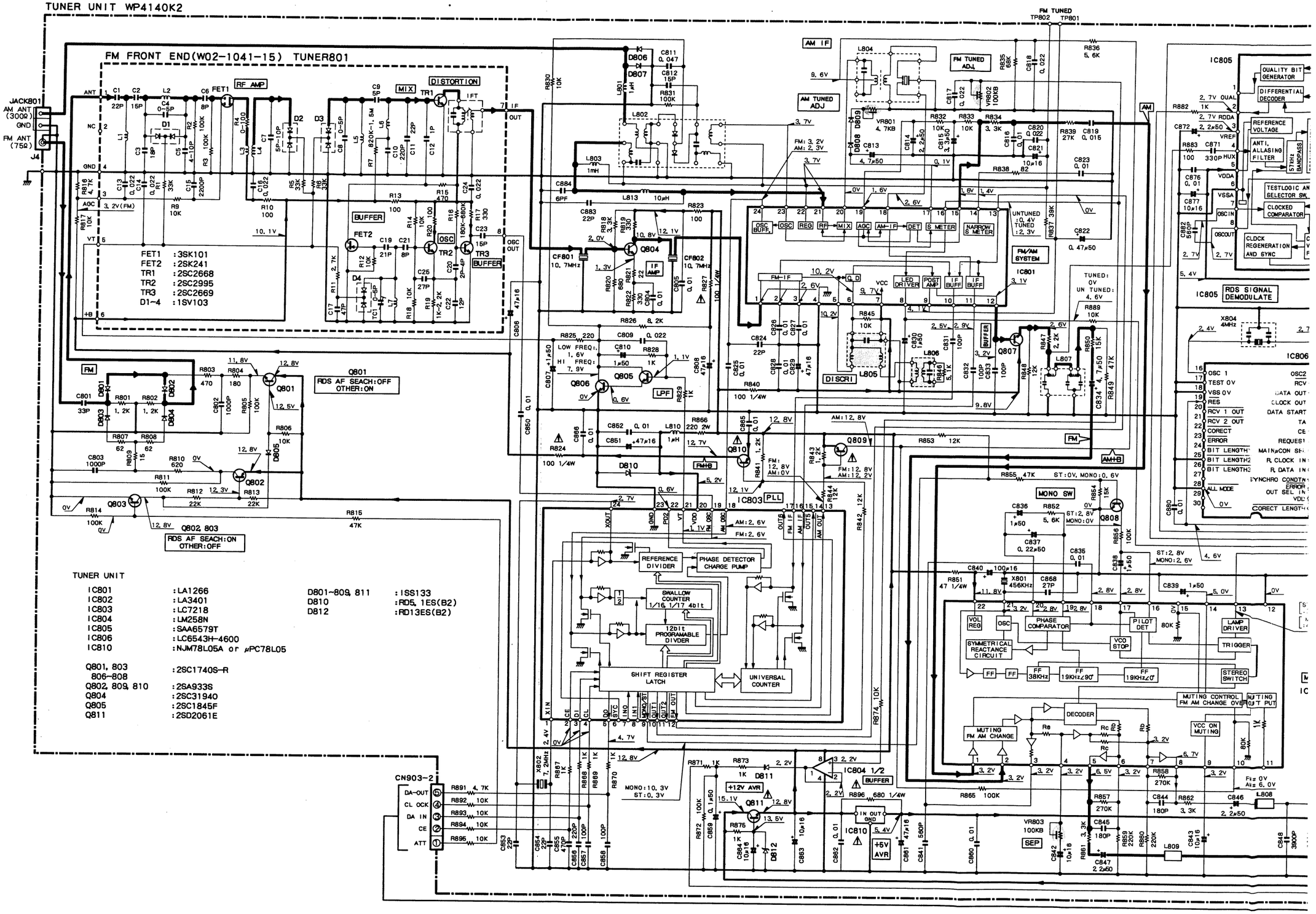
PC BOARD (Component side view) : KR-A4070/A5070

MAIN UNIT
WP4143K3 (KR-A4070 E, G)
WP4143K4 (KR-A4070 T)
WP4137K4 (KR-A5070 E, G)



Refer to the schematic diagram for the values of resistors and capacitors.

TUNER UNIT WP4140K2



TUNER UNIT

IC801	:LA1266	D801~809, 811	:1SS133
IC802	:LA3401	D810	:RD5. 1ES(B2)
IC803	:LC7218	D812	:RD13ES(B2)
IC804	:LM258N		
IC805	:SAA6579T		
IC806	:LC6543H-4600		
IC810	:NJM78L05A or μPC78L05		
Q801, 803 806~808	:2SC1740S-R		
Q802, 809, 810	:2SA933S		
Q804	:2SC31940		
Q805	:2SC1845F		
Q811	:2SD2061E		

DC voltages are as measured with a high imped
Values may vary slightly due to variations between i
ments or/and units.

FRONT UNIT WP4138K2

IC901 : μPD78044GF-021
IC902 : KIA7045P (31)(2)

Q901~903 Q904 : DTA144E : DTC143E

D901~920 D921 D922 : 1SS133 : MTZJ6.2B : MTZ2.7B

FLT901 : 10-MT-659K

A901 : W02-1111-08

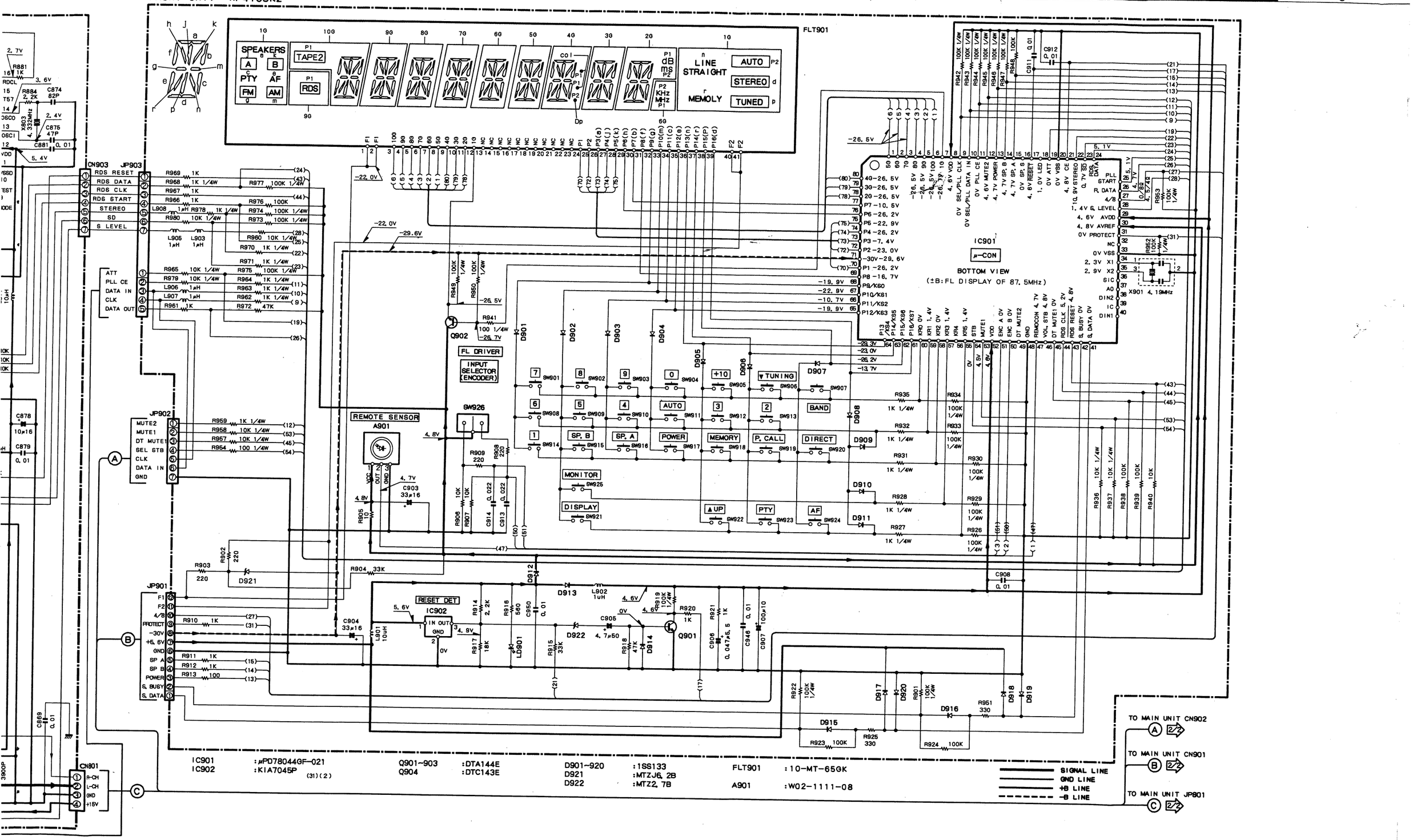
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

FRONT UNIT WP4138K2



IC901 : μPD78044GF-021
IC902 : KIA7045P (31)(2)

Q901~903 : DTA144E
Q904 : DTC143E

D901~920 : 1SS133
D921 : MTZJ6.2B
D922 : MTZ2.7B

FLT901 : 10-MT-65GK
A901 : W02-1111-08

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y05-3032-71

KR-A4070/A5070 [E, T, G]

KENWOOD

WP4143K3(KR-A4070 E, G)
WP4143K4(KR-A4070 T)
WP4137K4(KR-A5070 E, G)

MAIN UNIT

JP801 R L G B+
CN101 VR UP VR DOWN GND R IN R OUT GND L OUT L IN GND
CN902 M2 M1 DM1 ST CK DATA DGND

PHONO
CD
TAPE1 REC PLAY
TAPE2 REC PLAY
VIDEO1 PLAY IN
VIDEO2 PLAY IN

IC101 (1/2) EQ AMP
IC101 (2/2)
IC102 INPUT SELECTOR
IC104 SELECTOR REC, TONE ON/OFF
IC106 VOL, MOTOR DRIVE

ST MUTE
CK MUTE
DATA MUTE
MUTE1 DRIVE
MUTE2
MUTE1
+15V AVR IC1
PROTECTION CONTROL
IMPEDANCE SELECTOR

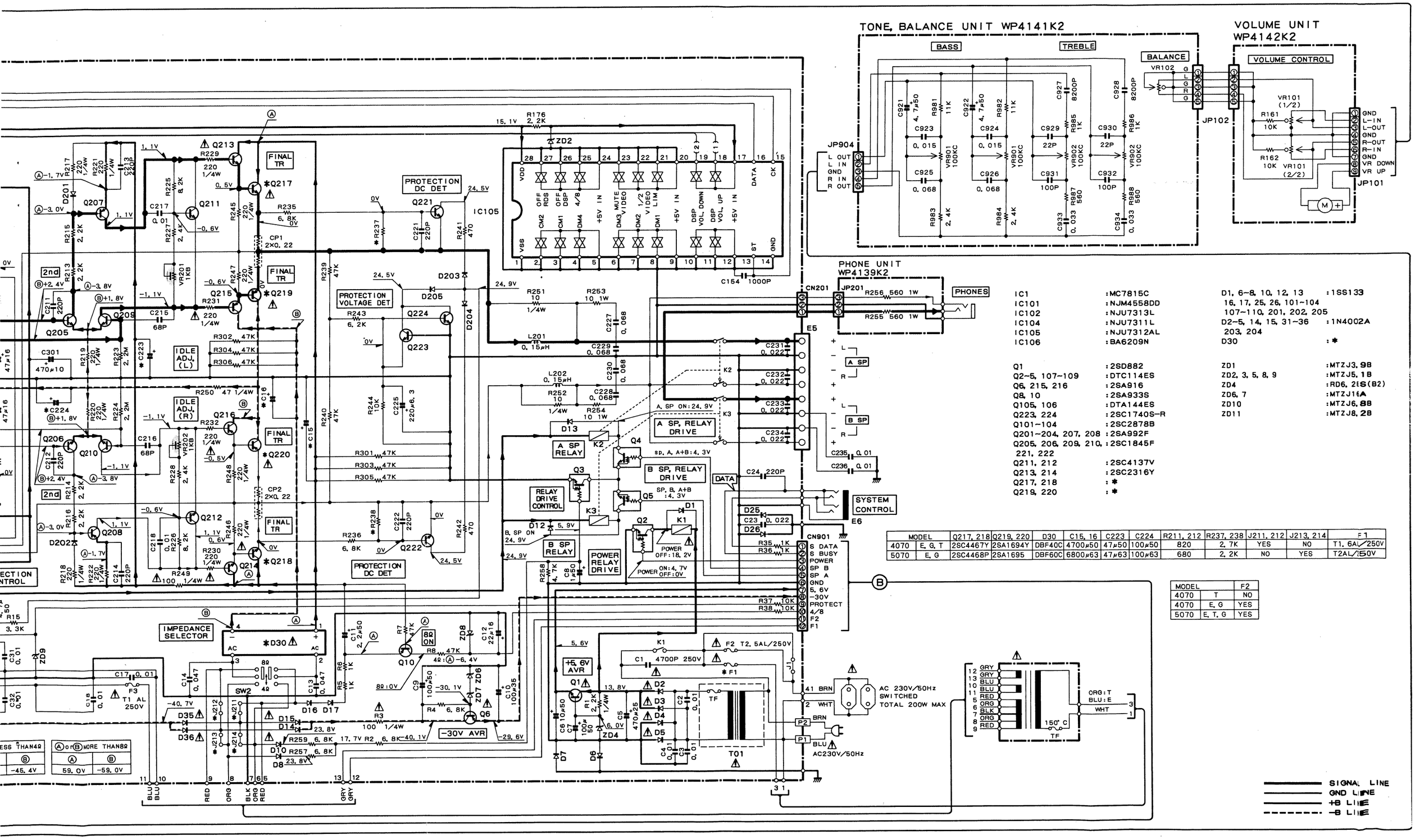
FINAL TR
IDLE ADJ. (L)
IDLE ADJ. (R)

TO FRONT UNIT JP902
TO TUNER UNIT CN801
TO FRONT UNIT JP901

CN904 L OUT L IN GND R IN R OUT

D30	A or B LESS THAN4Ω	
	A	B
	45. 4V	−45. 4V

A or B MORE THAN8Ω	
A	B
59. 0V	−59. 0V

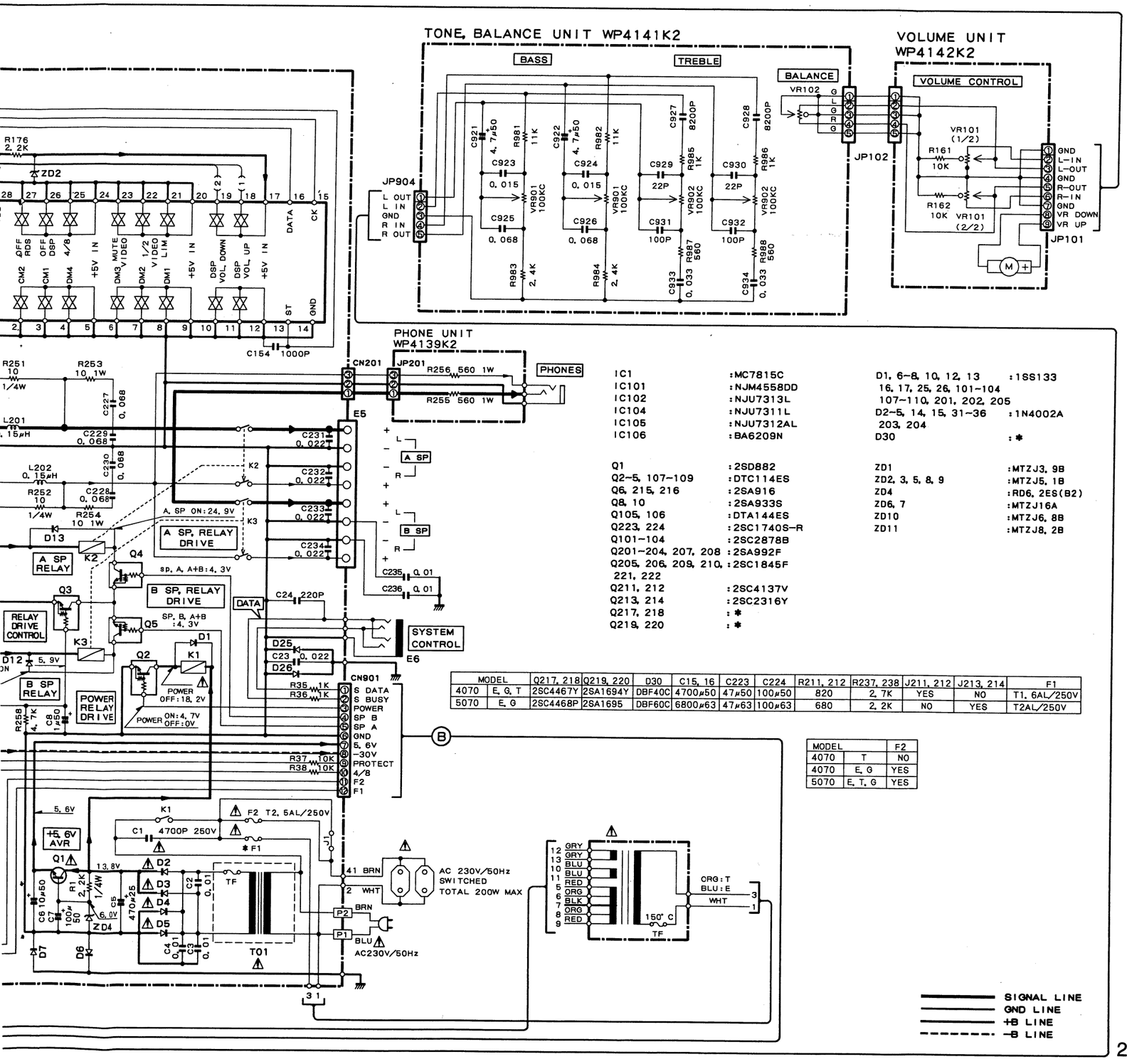


IC1	:MC7815C
IC101	:NJM4558DD
IC102	:NJU7313L
IC104	:NJU7311L
IC105	:NJU7312AL
IC106	:BA6209N
Q1	:2SD882
Q2~5, 107~109	:DTC114ES
Q6, 215, 216	:2SA916
Q8, 10	:2SA933S
Q105, 106	:DTA144ES
Q223, 224	:2SC1740S-R
Q101~104	:2SC2878B
Q201~204, 207, 208	:2SA992F
Q205, 206, 209, 210, 221, 222	:2SC1845F
Q211, 212	:2SC4137V
Q213, 214	:2SC2316Y
Q217, 218	:*
Q219, 220	:*
D1, 6~8, 10, 12, 13, 16, 17, 25, 26, 101~104, 107~110, 201, 202, 205	:1SS133
D2~5, 14, 15, 31~36, 203, 204	:1N4002A
D30	:*
ZD1	:MTZJ3, 9B
ZD2, 3, 5, 8, 9	:MTZJ5, 1B
ZD4	:RD6, 2ES(B2)
ZD6, 7	:MTZJ16A
ZD10	:MTZJ6, 8B
ZD11	:MTZJ8, 2B

MODEL		Q217, 218	Q219, 220	D30	C15, 16	C223	C224	R211, 212	R237, 238	J211, 212	J213, 214	F1
4070	E, G, T	2SC4467Y	2SA1694Y	DBF40C	4700μ50	47μ50	100μ50	820	2, 7K	YES	NO	T1, 6AL/250V
5070	E, G	2SC4468P	2SA1695	DBF60C	6800μ63	47μ63	100μ63	680	2, 2K	NO	YES	T2AL/250V

MODEL		F2
4070	T	NO
4070	E, G	YES
5070	E, T, G	YES

LESS THAN 4Ω		A or B MORE THAN 8Ω	
A	B	A	B
-45, 4V		59, 0V	-59, 0V



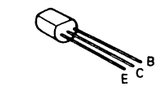
IC1	:MC7815C
IC101	:NJM4558DD
IC102	:NJU7313L
IC104	:NJU7311L
IC105	:NJU7312AL
IC106	:BA6209N
Q1	:2SD882
Q2–5, 107–109	:DTC114ES
Q6, 215, 216	:2SA916
Q8, 10	:2SA933S
Q105, 106	:DTA144ES
Q223, 224	:2SC1740S-R
Q101–104	:2SC2878B
Q201–204, 207, 208	:2SA992F
Q205, 206, 209, 210, 221, 222	:2SC1845F
Q211, 212	:2SC4137V
Q213, 214	:2SC2316Y
Q217, 218	: *
Q219, 220	: *

D1, 6–8, 10, 12, 13, 16, 17, 25, 26, 101–104, 107–110, 201, 202, 205	:1SS133
D2–5, 14, 15, 31–36, 203, 204	:1N4002A
D30	: *
ZD1	:MTZJ3, 9B
ZD2, 3, 5, 8, 9	:MTZJ5, 1B
ZD4	:RD6, 2ES(B2)
ZD6, 7	:MTZJ16A
ZD10	:MTZJ6, 8B
ZD11	:MTZJ8, 2B

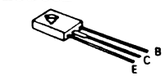
MODEL		Q217, 218	Q219, 220	D30	C15, 16	C223	C224	R211, 212	R237, 238	J211, 212	J213, 214	F1
4070	E, G, T	2SC4467Y	2SA1694Y	DBF40C	4700μ50	47μ50	100μ50	820	2, 7K	YES	NO	T1, 6AL/250V
5070	E, G	2SC4468P	2SA1695	DBF60C	6800μ63	47μ63	100μ63	680	2, 2K	NO	YES	T2AL/250V

MODEL		F2
4070	T	NO
4070	E, G	YES
5070	E, T, G	YES

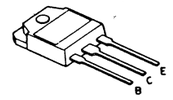
2SC2878B



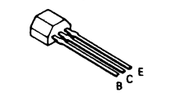
2SD882



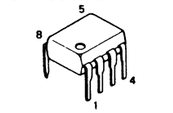
2SA1695



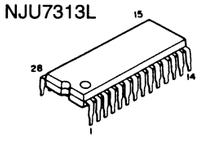
DTA144ES
DTC114ES
2SA933S
2SC1740S-R



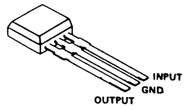
NJM4558DD



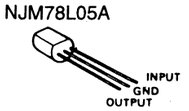
NJU7311L
NJU7313L



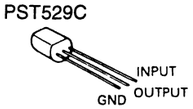
UPC78L05



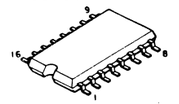
NJM78L05A



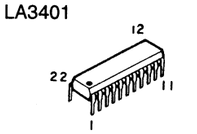
PST529C



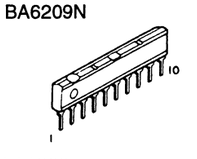
SAA6579T



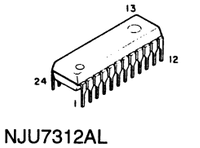
LA3401



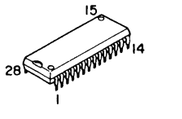
BA6209N



LA1266
LC7218



NJU7312AL



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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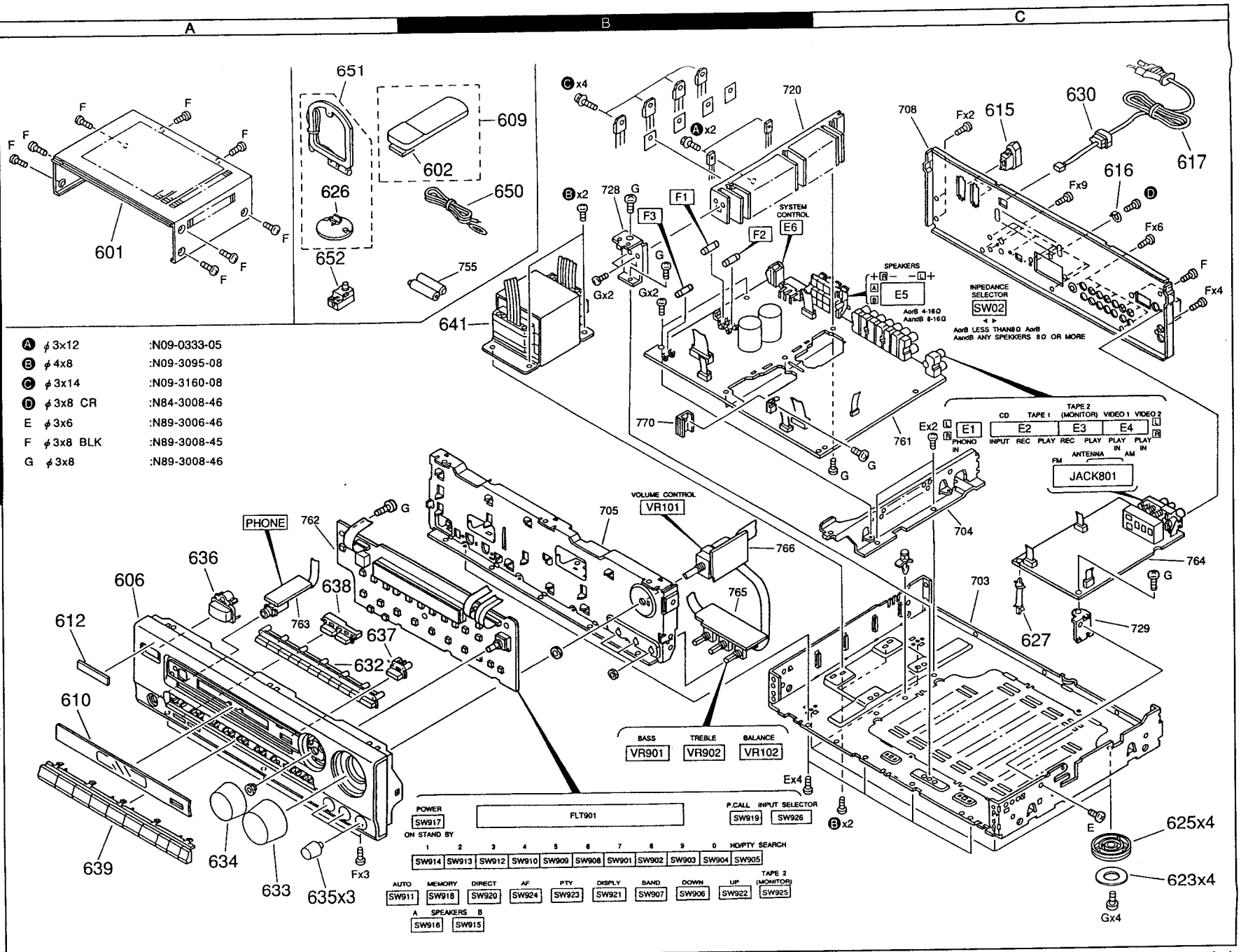
Y05-3032-71

KR-A4070/A5070 [E, T, G]

KENWOOD

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not suppied.

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KR-A4070						
601	1A		A01-3167-08	METALIC CABINET		
602	1B		A09-0170-08	BATTERY COVER		
606	2A	*	A60-0764-08	FRONT PANEL	T	
606	2A	*	A60-0765-08	FRONT PANEL	EG	
609	1B		A70-0985-08	REMOTE CONTROL ASSY		
610	2A	*	B10-2137-08	FRONT GLASS		
612	2A		B43-0287-04	KENWOOD BADGE	EG	
-			B46-0122-23	WARRANTY CARD	E	
-		*	B60-2114-08	INSTRUCTION MANUAL (ENGLISH)	TE	
-		*	B60-2115-08	INSTRUCTION MANUAL (F/D/I/S)	E	
-		*	B60-2116-08	INSTRUCTION MANUAL (GERMANY)	EG	
⚠ 615	1C		E03-0085-05	AC OUTLET	T	
⚠ 615	1C		E03-0324-08	AC OUTLET	EG	
616	1C		E21-0031-08	GND TERMINAL	E	
⚠ 617	1C	*	E30-2721-05	AC POWER CORD ASSY	T	
⚠ 617	1C	*	E30-2799-08	AC POWER CORD ASSY	E	
623	2C		G13-0513-08	CUSHION FOOT		
-		*	H10-7076-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (ACCESSORY)		
-			H25-0232-04	PROTECTION BAG (MANUAL)		
-			H25-1544-08	PROTECTION BAG (UNIT)		
-		*	H50-1508-08	ITEM CARTON CASE	T	
-		*	H50-1510-08	ITEM CARTON CASE	EG	
625	2C		J02-1099-08	FOOT		
626	1A	*	J19-2815-04	LOOP ANTTENNA HOLDER		
627	2C		J19-3631-08	PCB HOLDER		
⚠ 630	1C		J42-0200-08	AC CORD BUSHING		
632	2A	*	K29-6180-08	KNOB PRESET(10KEY)		
633	2A	*	K29-6181-08	KNOB VOLUME CONTROL		
634	2A	*	K29-6182-08	KNOB INPUT SELECTOR		
635	2A	*	K29-6183-08	KNOB BASS,TREBLE,BALANCE		
636	2A	*	K29-6184-08	KNOB POWER		
637	2A	*	K29-6186-08	KNOB P.CALL		
638	2A	*	K29-6187-08	KNOB SPEAKERS		
639	2A	*	K29-6189-08	KNOB FUNCTION		
⚠ 641	1B		L07-1801-08	POWER TRANSFORMER		
B			N09-3095-08	TAPTITE SCREW (M4X8)		
C			N09-3160-08	TAPTITE SAREW (M3X14)		
650	1B		T90-0176-05	T TYPE ANTENNA		
651	1A	*	T90-0804-08	LOOP ANTTENA		
652	1A		T90-0805-08	ANTTENNA ADAPTER		
KR-A5070						
601	1A		A01-3167-08	METALIC CABINET		
602	1B		A09-0170-08	BATTERY COVER		
606	2A	*	A60-0763-08	FRONT PANEL		
609	1B		A70-0985-08	REMOTE CONTROL UNIT		
610	2A	*	B10-2137-08	FRONT GLASS		
612	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0122-23	WARRANTY CARD		

L: Scandinavia
Y: PX (Far East, Hawaii)
Y: AAFES (Europe)
K: USA
T: England
X: Australia
P: Canada
E: Europe
M: Other Areas
R: Mexico
G: Germany

⚠ indicates safety critical components.

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-		*	B60-2114-08	INSTRUCTION MANUAL (ENGLISH)	E	
-		*	B60-2115-08	INSTRUCTION MANUAL (F/D/I/S)	E	
-		*	B60-2116-08	INSTRUCTION MANUAL (GERMANY)	EG	
⚠ 615	1C	*	E03-0324-08	AC OUTLET		
616	1C		E21-0031-08	GND TERMINAL		
⚠ 617	1C	*	E30-2799-08	AC POWER CORD		
623	2C	*	G13-0513-08	CUSHION FOOT		
-		*	H10-7076-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (ACCESSORY)		
-			H25-0232-04	PROTECTION BAG (MANUAL)		
-			H25-1544-08	PROTECTION BAG (UNIT)		
-		*	H50-1513-08	ITEM CARTON CASE		
625	2C		J02-1099-08	FOOT		
626	1A		J19-2815-04	ANTTENNA HOLDER		
627	2C		J19-3631-08	UNIT HOLDER		
⚠ 630	1C		J42-0200-08	AC CORD BUSHING		
632	2A	*	K29-6180-08	KNOB PRESET(10KEY)		
633	2A	*	K29-6181-08	KNOB VOLUME CONTROL		
634	2A	*	K29-6182-08	KNOB INPUT SELECTOR		
635	2A	*	K29-6183-08	KNOB BASS,TREBLE,BALANCE		
636	2A	*	K29-6184-08	KNOB POWER		
637	2A	*	K29-6186-08	KNOB P.CALL		
638	2A	*	K29-6187-08	KNOB SPEAKERS		
639	2A	*	K29-6189-08	KNOB FUNCTOIN		
⚠ 641	1B		L07-0999-08	POWER TRANSFORMER		
B			N09-3095-08	TAPTITE SCREW (M4X8)		
C			N09-3160-08	TAPTITE SCREW (M3X14)		
650	1B		T90-0176-05	T TYPE ANTENNA		
651	1A		T90-0804-08	LOOP ANTTENA		
652	1A	*	T90-0805-08	ANTTENNA ADAPTER		
ELECTRIC PARTS						
LD901			B30-0413-05	LED(LTL4213(RED))		
⚠ C01			C91-1441-08	CERAMIC 4700PF 250WV		
C02 -04			CK45FF1H103Z	CERAMIC 0.010UF Z		
C05			CE04KW1E471M	ELECTRO 470UF 25WV		
C06			CE04KW1H100M	ELECTRO 10UF 50WV		
C07			CE04KW1A101M	ELECTRO 100UF 10WV		
C08			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C09			CE04KW1H101M	ELECTRO 100UF 50WV		
C10			CE04KW1V101M	ELECTRO 100UF 35WV		
C11			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C12			CE04KW1C220M	ELECTRO 22UF 16WV		
C13 ,14			CK45FF1H473Z	CERAMIC 0.047UF Z		
C15 ,16			C90-3561-05	ELECTRO 4700UF 50WV		4
C15 ,16			C90-3565-08	ELECTRO 6800UF 63WV		5
C17 ,18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C24			CC45FSL1H221J	CERAMIC 220PF J		
C31 -34			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35			CE04KW1V102M	ELECTRO 1000UF 35WV		

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× New Parts
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Teile ohne Parts No. werden nicht geliefert.

No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C36		*	C91-1528-08	CERAMIC 0.1UF Z		
C37			CE04KW1C470M	ELECTRO 47UF 16WV		
C38			CE04KW1H221M	ELECTRO 220UF 50WV		
C39			CE04KW1C101M	ELECTRO 100UF 16WV		
C40			C91-1528-08	CERAMIC 0.1UF Z		
C99			CK45FB1H272K	CERAMIC 2700PF K		
C100			CK45FB1H102K	CERAMIC 1000PF K		
C101,102			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C103-106			CK45FB1H102K	CERAMIC 1000PF K		
C107,108			CE04KW1A101M	ELECTRO 100UF 10WV		
C109,110			CQ93FMG1H332J	MYLAR 3300PF J		
C111,112			CQ93FMG1H123J	MYLAR 0.012UF J		
C113,114			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C115			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117,118		*	C91-1528-08	CERAMIC 0.1UF Z		
C119-128			CC45FSL1H221J	CERAMIC 220PF J		
C131-134			CC45CH1H221J	CERAMIC 220PF J		
C135,136			CE04KW1C470M	ELECTRO 47UF 16WV		
C137			CC45FSL1H221J	CERAMIC 220PF J		
C138,139			CC45FSL1H101J	CERAMIC 100PF J		
C140			CK45FB1H102K	CERAMIC 1000PF K		
C148			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C149,150			CK45FF1H103Z	CERAMIC 0.010UF Z		
C152,153			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C154			CK45FB1H102K	CERAMIC 1000PF K		
C155			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C156			CE04KW1C101M	ELECTRO 100UF 16WV		
C201,202			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C203,204			CC45FSL1H680J	CERAMIC 68PF J		
C205,206			CK45FB1H471K	CERAMIC 470PF K		
C207			CE04KW1A471M	ELECTRO 470UF 10WV		
C209,210			CE04KW1A101M	ELECTRO 100UF 10WV		
C211-214			CC45FSL1H221J	CERAMIC 220PF J		
C215,216			CC45FSL2H680J	CERAMIC 68PF J		
C217,218			CK45FF1H103Z	CERAMIC 0.010UF Z		
C219,220			CC45FCH1H180J	CERAMIC 18PF J		
C221,222			CC45FSL1H221J	CERAMIC 220PF J		
C223			CE04KW1H470M	ELECTRO 47UF 50WV		4
C223			CE04KW1J470M	ELECTRO 47UF 63WV		5
C224			CE04KW1H101M	ELECTRO 100UF 50WV		4
C224			CE04KW1J101M	ELECTRO 100UF 63WV		5
C225			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C227-230			CQ93FMG1H683J	MYLAR 0.068UF J		
C231-234			CK45FF1H223Z	CERAMIC 0.022UF Z		
C235,236			CK45FF1H103Z	CERAMIC 0.010UF Z		
C301			CE04KW1A471M	ELECTRO 470UF 10WV		
C801			CC45FCH1H330J	CERAMIC 33PF J		
C802,803			CK45FB1H102K	CERAMIC 1000PF K		
C804,805			CK45FF1H103Z	CERAMIC 0.010UF Z		
C806			CE04KW1C470M	ELECTRO 47UF 16WV		
C807			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C808			CE04KW1C470M	ELECTRO 47UF 16WV		
C809			CQ93FMG1H223J	MYLAR 0.022UF J		
C810			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C811			CK45FF1H473Z	CERAMIC 0.047UF Z		

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No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C812			CC45FCH1H150J	CERAMIC 15PF J		
C813			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C814			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C815			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C816			CK45FF1H103Z	CERAMIC 0.010UF Z		
C817,818			CK45FF1H223Z	CERAMIC 0.022UF Z		
C819			CQ93FMG1H153J	MYLAR 0.015UF J		
C820			CK45FF1H223Z	CERAMIC 0.022UF Z		
C821			CE04KW1C100M	ELECTRO 10UF 16WV		
C822			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C823			CK45FF1H103Z	CERAMIC 0.010UF Z		
C824			CC45FCH1H220J	CERAMIC 22PF J		
C825-828			CK45FF1H103Z	CERAMIC 0.010UF Z		
C829			CE04KW1C470M	ELECTRO 47UF 16WV		
C830			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C831-833			CC45FSL1H101J	CERAMIC 100PF J		
C834			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C835			CQ93FMG1H103J	MYLAR 0.010UF J		
C836			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C837			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C838,839			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C840			CE04KW1C101M	ELECTRO 100UF 16WV		
C841			CK45FB1H561J	CERAMIC 560PF J		
C842,843			CE04KW1C100M	ELECTRO 10UF 16WV		
C844,845			CC45FSL1H181J	CERAMIC 180PF J		
C846,847			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C848,849			CQ93FMG1H392J	MYLAR 3900PF J		
C850			CK45FF1H103Z	CERAMIC 0.010UF Z		
C851			CE04KW1C470M	ELECTRO 47UF 16WV		
C852			CK45FF1H103Z	CERAMIC 0.010UF Z		
C853,854			CC45FCH1H220J	CERAMIC 22PF J		
C855			CC45FB1H471K	CERAMIC 470PF K		
C856			CC45FSL1H221J	CERAMIC 220PF J		
C857,858			CC45FSL1H101J	CERAMIC 100PF J		
C859			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C860			CK45FF1H103Z	CERAMIC 0.010UF Z		
C861			CE04KW1C470M	ELECTRO 47UF 16WV		
C862			CK45FF1H103Z	CERAMIC 0.010UF Z		
C863,864			CE04KW1C100M	ELECTRO 10UF 16WV		
C865,866			CK45FF1H103Z	CERAMIC 0.010UF Z		
C868			CC45FSL1H270J	CERAMIC 27PF J		
C869			CK45FF1H103Z	CERAMIC 0.010UF Z		
C871			CC45FSL1H331J	CERAMIC 330PF J		
C872			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C873			CK45F1H103M	CERAMIC 0.010UF M		
C874			CC45FSL1H820J	CERAMIC 82PF J		
C875			CC45FSL1H470J	CERAMIC 47PF J		
C876			CK45FF1H103Z	CERAMIC 0.010UF Z		
C877,878			CE04KW1C100M	ELECTRO 10UF 16WV		
C879-881			CK45FF1H103Z	CERAMIC 0.010UF Z		
C882		*	CK45FB1H561J	CERAMIC 560PF J		
C883			CC45FCH1H220J	CERAMIC 22PF J		
C884			CC45FCH1H060D	CERAMIC 6.0PF D		
C903,904			CE04KW1C330M	ELECTRO 33UF 16WV		
C905			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		

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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C906			C90-1827-05	ELECTR@ 0.047F 5.5WV		
C907			CE04KW1A101M	ELECTR@ 100UF 10WV		
C908			CK45FF1H103Z	CERAMIC 0.010UF Z		
C911,912			CK45FF1H103Z	CERAMIC 0.010UF Z		
C913,914			CK45FF1H223Z	CERAMIC 0.022UF Z		
C921,922			CE04KW1H4R7M	ELECTR@ 4.7UF 50WV		
C923,924			CQ93FMG1H153J	MYLAR 0.015UF J		
C925,926			CQ93FMG1H683J	MYLAR 0.068UF J		
C927,928			CK45FB1H822Z	CERAMIC 8200PF Z		
C929,930			CC45FCH1H220J	CERAMIC 22PF J		
C931,932			CC45FSL1H101J	CERAMIC 100PF J		
C933,934			CQ93FMG1H333J	MYLAR 0.033UF J		
C946			CK45FF1H103Z	CERAMIC 0.010UF Z		
C950			CK45FF1H103Z	CERAMIC 0.010UF Z		
E1	1C		E63-0157-08	PH@N@ JACK PH@N@		
E2	1C		E63-0159-08	PH@N@ JACK CD,TAPE1		
E3 ,4	1C		E63-0158-08	PH@N@ JACK TAPE2,VIDE@1,2		
E5	1C		E70-0004-08	L@CK TERMINAL B@ARD SPEAKERS		
E6	1B		E11-0188-05	MINIATUA PH@NE JACK SYNCHR@		
JACK801	1C		E70-0023-08	TERMINAL B@ARD ANTENNA		
PH@NE	2A		E11-0263-08	PH@NE JACK HEAD PH@NES		
⚠F1	1B		F05-1623-05	FUSE SEMC@ T1.6A/250V		4
⚠F1	1B		F06-2021-05	FUSE SEMC@ T2A/250V		5
⚠F2	1B		F05-2525-05	FUSE SEMC@ T2.5A/250V	G	
⚠F3	1B		F06-1022-05	FUSE SEMC@ T1A/250V		
-			J13-0084-08	FUSE CLIP		
CF801,802			L72-0575-08	CERAMIC FILTER 10.7MHz		
L201,202			L39-1303-08	INDUCT@R 0.15UH		
L301			L33-0379-08	INDUCT@R 22UH		
L801			L40-1091-17	SMALL FIXED INDUCT@R 1UH		
L802			L39-1322-08	C@IL		
L803			L33-0381-08	SMALL FIXED INDUCT@R 1mH		
L804			L30-0904-08	IFT AM		
L805			L30-0905-08	IFT FM		
L806			L30-0906-08	IFT FM		
L807			L39-1323-08	C@IL		
L808,809			L35-0070-08	C@IL		
L810			L40-1091-17	SMALL FIXED INDUCT@R 1UH		
L811-813			L40-1001-17	SMALL FIXED INDUCT@R 10UH		
L901			L40-1001-17	SMALL FIXED INDUCT@R 10UH		
L902,903			L40-1091-17	SMALL FIXED INDUCT@R 1UH		
L905-908			L40-1091-17	SMALL FIXED INDUCT@R 1UH		
⚠T01		*	L07-1987-08	TRANSF@RMER	T	4
X801			L78-0616-08	RES@NAT@R 456kHz		
X802			L77-2126-08	CRYSTAL 7.200MHz		
X803			L77-2127-08	CRYSTAL 4.332MHz		
X804			L78-0617-08	RES@NAT@R 4.00MHz		
X901			L78-0209-05	RES@NAT@R 4.19MHz		
G	2K		N89-3010-46	BINDING HEAD TAPTITE SCREW		
⚠CP1 ,2			R90-0947-08	MULTI-C@MP 0.22X2 K 3W		
⚠R03			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		
⚠R31			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		

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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R32			RS14KB3D122J	FL-PR@@F RS 1.2K J 2W		
R177			RD14GB2E100J	FL-PR@@F RD 10 J 1/4W		
R217-222			RD14GB2E221J	FL-PR@@F RD 220 J 1/4W		
⚠R229-232			RD14GB2E221J	FL-PR@@F RD 220 J 1/4W		
R245-248			RD14GB2E221J	FL-PR@@F RD 220 J 1/4W		
⚠R249			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		
R250			RD14GB2E470J	FL-PR@@F RD 47 J 1/4W		
R253,254			RS14KB3A100J	FL-PR@@F RS 10 J 1W		
R255,256			RS14KB3A561J	FL-PR@@F RS 560 J 1W		
R824			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		
R827			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		
R840			RD14GB2E101J	FL-PR@@F RD 100 J 1/4W		
R851			RD14GB2E470J	FL-PR@@F RD 47 J 1/4W		
R866			RS14KB3D221J	FL-PR@@F RS 220 J 2W		
VR101	2B		R39-0001-08	P@TENTI@METER 100KBX2 V@LUME		
VR102	2B	*	R31-0053-08	P@TENTI@METER BALANCE		
VR201,202			R12-1066-05	TRIM P@T. 1KB IDLE ADJ		5
VR801			R12-1053-05	TRIM P@T. 4.7KB AM TUNE LEVEL		
VR802			R32-0012-08	TRIM P@T. 100KB FM TUNE LEVEL		
VR803			R32-0012-08	TRIM P@T. 100KB SEPARATI@N		
VR901,902	2B		R31-0058-08	P@TENTI@METER BASS TREBLE		
⚠K1			S76-0034-08	MAGNETIC RELAY		
K2 ,3			S76-0035-08	MAGNETIC RELAY		
SW2	1C		S62-0032-08	SLIDE SWITCH IMPEDANCE SELECT		
SW901-925	2B		S70-0030-08	TACT SWITCH KEY B@ARD		
SW926	2B		S60-0030-08	R@TARY SWITCH INPUT SELECT@R		
D1			1SS133	DI@DE		
⚠D2 -5			1N4002A	DI@DE		
D06 -08			1SS133	DI@DE		
D10			1SS133	DI@DE		
D12 ,13			1SS133	DI@DE		
⚠D14 ,15			1N4002A	DI@DE		
D16 ,17			1SS133	DI@DE		
D25 ,26			1SS133	DI@DE		
⚠D30			DBF40C	DI@DE		4
⚠D30			DBF60C	DI@DE		5
⚠D31 -36			1N4002A	DI@DE		
D98 ,99			1SS133	DI@DE		
D101-104			1SS133	DI@DE		
D107-110			1SS133	DI@DE		
D201,202			1SS133	DI@DE		
D203,204			1N4002A	DI@DE		
D205,206			1SS133	DI@DE		
D801-809			1SS133	DI@DE		
D810			RD5.1ES(B2)	ZENER DI@DE		
D811			1SS133	DI@DE		
D812			RD13ES(B2)	ZENER DI@DE		
D901-920			1SS133	DI@DE		
D921			MTZJ6.2B	ZENER DI@DE		
D922			MTZ2.7B	ZENER DI@DE		
FLT901	2B	*	10-MT-65GK	FLU@RESCENT INDICAT@R TUBE		
⚠IC01			MC7815C	IC(V@LTAGE REGULAT@R/+15)		
IC101			NJM4558DD	IC(@P AMP X2)		
IC102			NJU7313L	IC(ANAL@G SWITCH) SELECT@R SW)		

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PARTS LIST

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
IC104		*	NJU7311L	IC(ANALOG SWITCH)ARRAY)		
IC105		*	NJU7312AL	IC(SWITCHING IC)TCH X16)		
IC106			BA6209N	IC(MOTOR DRIVER)		
IC801			LA1266	IC(AM/FM IF)		
IC802			LA3401	IC(FM MPX)		
IC803			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
IC804			LM258N	IC		
IC805			SAA6579T	IC(RDS DEMODULATOR)		
IC806			LC6543H-4600	IC(4bit MICROPROCESSOR)		
IC810			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)		
IC810			UPC78L05	IC(VOLTAGE REGULATOR/ +5V)		
IC901			UPD78044GF-021	IC(8BIT MICROPROCESSOR)		
IC902			PST529C	IC(SYSTEM RESET)		
⚠ Q01			2SD882	TRANSISTOR		
Q02 -05			DTC114ES	DIGITAL TRANSISTOR		
⚠ Q06			2SA916	TRANSISTOR		
Q08			2SA933S	TRANSISTOR		
Q10			2SA933S	TRANSISTOR		
Q101-104			2SC2878B	TRANSISTOR		
Q105,106			DTA144ES	DIGITAL TRANSISTOR		
Q107-109			DTC114ES	DIGITAL TRANSISTOR		
Q201-204			2SA992F	TRANSISTOR		
Q205,206			2SC1845F	TRANSISTOR		
Q207,208			2SA992F	TRANSISTOR		
Q209,210			2SC1845F	TRANSISTOR		
Q211,212			2SC4137V	TRANSISTOR		
Q213,214		*	2SC2316Y	TRANSISTOR		
Q215,216			2SA916	TRANSISTOR		
⚠ Q217,218			2SC4467Y	TRANSISTOR		4
⚠ Q217,218			2SC4468P	TRANSISTOR		5
⚠ Q219,220		*	2SA1694Y	TRANSISTOR		4
⚠ Q219,220			2SA1695	TRANSISTOR		5
Q221,222			2SC1845F	TRANSISTOR		
Q223,224			2SC1740S-R	TRANSISTOR		
Q801			2SC1740S-R	TRANSISTOR		
Q802			2SA933S	TRANSISTOR		
Q803			2SC1740S-R	TRANSISTOR		
Q804			2SC3194Q	TRANSISTOR		
Q805			2SC1845F	TRANSISTOR		
Q806-808			2SC1740S-R	TRANSISTOR		
Q809,810			2SA933S	TRANSISTOR		
Q811			2SD2061E	TRANSISTOR		
Q901,902			2SC1740S-R	TRANSISTOR		
ZD01			MTZJ3.9B	ZENER DIODE		
ZD02,03			MTZJ5.1B	ZENER DIODE		
ZD04			RD6.2ES(B2)	ZENER DIODE		
ZD06,07			MTZJ16A	ZENER DIODE		
ZD08,09			MTZJ5.1B	ZENER DIODE		
ZD10			MTZJ6.8B	ZENER DIODE		
ZD11			MTZJ8.2B	ZENER DIODE		
A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
TUNER801			W02-1041-15	FM FRONT END		

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T: England
X: Australia
P: Canada
E: Europe
M: Other Areas
R: Mexico
G: Germany

4 : KR-A4070
5 : KR-A5070

⚠ indicates safety critical components.

KR-A4070/A5070 [E, T, G]

SPECIFICATIONS

KR-A5070

Audio section

Rated power output
(DIN) 1,000 Hz at 8 Ω ..... 100 W + 100 W
at 4 Ω ..... 90 W + 90 W
Total harmonic distortion (1 kHz, 8 Ω) ..... 0.01% at 50 W
Signal to noise ratio
PHONO (MM) ..... 56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO ..... 57 dB (DIN, 50 mW output)
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD, TAPE, VIDEO ..... 200 mV / 47kΩ
Tone controls
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

FM Tuner section

Tuning frequency range ..... 87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)
MONO ..... 1.1 μV
STEREO ..... 45 μV
Total harmonic distortion at 1 kHz (DIN)
MONO 0.15%
STEREO 0.5%
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ..... 68 dB (65.2 dBf input)
STEREO ..... 61 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz) ..... 53 dB
Stereo separation (DIN)
1 kHz ..... 40 dB
6.3 kHz ..... 33 dB
Frequency response ..... 30 Hz~15 kHz, + 0.5 dB,– 2.0 dB

AM Tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity ..... 12 μV / (400 μV / m)
Total harmonic distortion ..... 0.3 %
Signal to noise ratio
(at 30% mod. 1mV input) ..... 50 dB
Selectivity ..... 30 dB

General

Power consumption ..... 190 W
AC outlet
SWITCHED ..... 2: (total 200 W max)
Dimensions ..... W:440 mm
H:133 mm
D:350 mm
Weight (net) ..... 8.3 kg

KR-A4070

Audio section

Rated power output
(DIN) 1,000 Hz at 8 Ω ..... 60 W + 60 W
at 4 Ω ..... 55 W + 55 W
Total harmonic distortion (1 kHz, 8 Ω) ..... 0.01% at 30 W
Signal to noise ratio
PHONO (MM) ..... 56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO ..... 57 dB (DIN, 50 mW output)
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD, TAPE, VIDEO ..... 200 mV / 47kΩ
Tone controls
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

FM Tuner section

Tuning frequency range ..... 87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)
MONO ..... 1.1 μV
STEREO ..... 45 μV
Total harmonic distortion at 1 kHz (DIN)
MONO 0.15%
STEREO 0.5%
Signal to noise ratio (DIN weighted at 1 kHz)
MONO ..... 68 dB (65.2 dBf input)
STEREO ..... 61 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz) ..... 53 dB
Stereo separation (DIN)
1 kHz ..... 40 dB
6.3 kHz ..... 33 dB
Frequency response ..... 30 Hz~15 kHz, + 0.5 dB,– 2.0 dB

AM Tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity ..... 12 μV / (400 μV / m)
Total harmonic distortion ..... 0.3 %
Signal to noise ratio
(at 30% mod. 1mV input) ..... 50 dB
Selectivity ..... 30 dB

General

Power consumption ..... 120 W
AC outlet
SWITCHED ..... 2: (total 200 W max)
Dimensions ..... W:440 mm
H:133 mm
D:350 mm
Weight (net) ..... 6.7 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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